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IN THE CLAIMS

1-20. (Cancelled)

1 21. (Currently amended) An ammonia synthesis catalyst, consisting of iron oxides and promoters, wherein the promoters comprise both a cobalt metal oxide and a titanium metal oxide, in addition to an aluminum metal oxide, a potassium metal oxide, a calcium metal oxide and a magnesium metal oxide, wherein cobalt metal is present at a concentration of from 0.1 to 3.0 wt%, and titanium metal is present at a concentration of from 0.1 to 1.0 wt%, aluminum metal is present at a concentration of from 1.5 to 1.8 wt%; potassium metal is present at a concentration of from 0.4 to 0.5 wt%; calcium metal is present at a concentration of from 1.6 to 1.8 wt%; magnesium metal is present at a concentration of from 0.3 to 0.5 wt%, and the balance is iron oxides with natural impurities.

22. (Cancelled)

2 23. (Previously presented) The ammonia synthesis catalyst according to claim 21, wherein the iron oxides have an atomic ratio of Fe^{2+}/Fe^{3+} of between 0.5 to 0.65.

3 24. (Currently amended) The ammonia synthesis catalyst of claim 21, wherein cobalt metal is present at a concentration of from 0.35 to 3.0 wt%; titanium metal is present at a concentration of from 0.38 to 0.95 wt%; aluminum metal is present at a concentration of from 1.5 to 1.8 wt%; potassium metal is present at a concentration of from 0.4 to 0.5 wt%; calcium metal is present at a concentration of from 1.6 to 1.8 wt%; magnesium metal is present at a concentration of from 0.3 to 0.5 wt%, and the balance being is iron oxides with natural impurities.

4 25. (Currently amended) An ammonia synthesis catalyst, ~~comprising~~ comprising iron oxides and promoters, wherein the promoters comprise both a cobalt metal oxide and a titanium metal oxide, in addition to an aluminum metal oxide, a potassium metal oxide, a calcium

metal oxide and a magnesium metal oxide, wherein cobalt metal is present at a concentration of from 0.1 to 3.0 wt%, ~~and~~ titanium metal is present at a concentration of from 0.1 to 1.0 wt%, aluminum metal is present at a concentration of from 1.5 to 1.8 wt%; potassium metal is present at a concentration of from 0.4 to 0.5 wt%; calcium metal is present at a concentration of from 1.6 to 1.8 wt%; and magnesium metal is present at a concentration of from 0.3 to 0.5 wt%.

26. (Cancelled)

5 ~~27~~. (Currently amended) The ammonia synthesis catalyst of claim ~~25~~, wherein cobalt metal is present at a concentration of from 0.35 to 3.0 wt%; titanium metal is present at a concentration of from 0.38 to 0.95 wt%; aluminum metal is present at a concentration of from 1.5 to 1.8 wt%; potassium metal is present at a concentration of from 0.4 to 0.5 wt%; calcium metal is present at a concentration of from 1.6 to 1.8 wt%; magnesium metal is present at a concentration of from 0.3 to 0.5 wt%, and the balance being is iron oxides with natural impurities.

6 ~~28~~. (Currently amended) The ammonia synthesis catalyst according to claim ~~25~~, which consists consisting essentially of iron oxides, cobalt metal oxide, titanium metal oxide, aluminum metal oxide, potassium metal oxide, calcium metal oxide and magnesium metal oxide.

X ~~29~~. (Previously presented) The ammonia synthesis catalyst according to claim ~~25~~, wherein the iron oxides have an atomic ratio of $\text{Fe}^{2+}/\text{Fe}^{3+}$ of between 0.5 to 0.65.

30-40. (Cancelled)